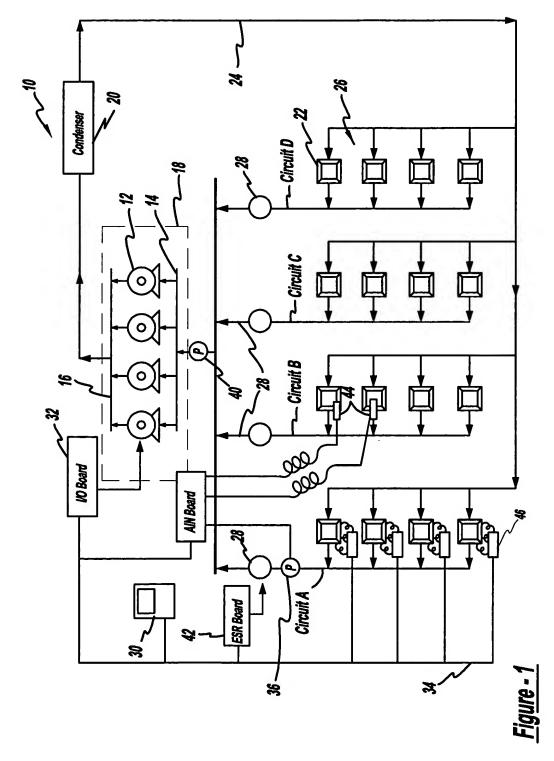
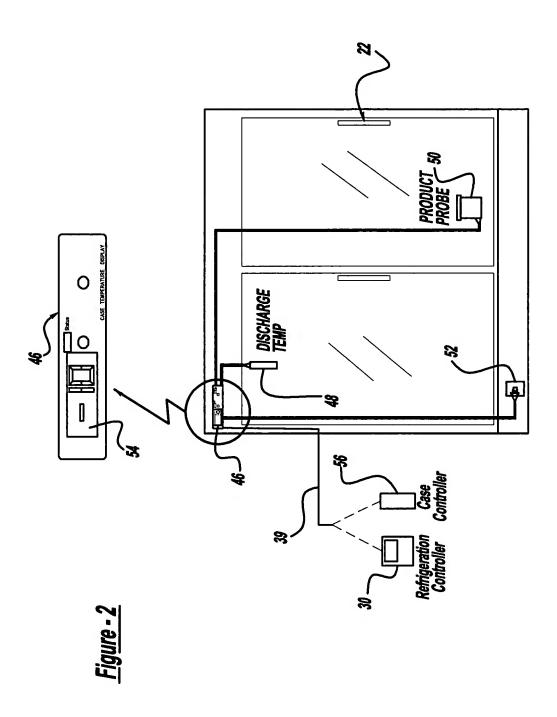
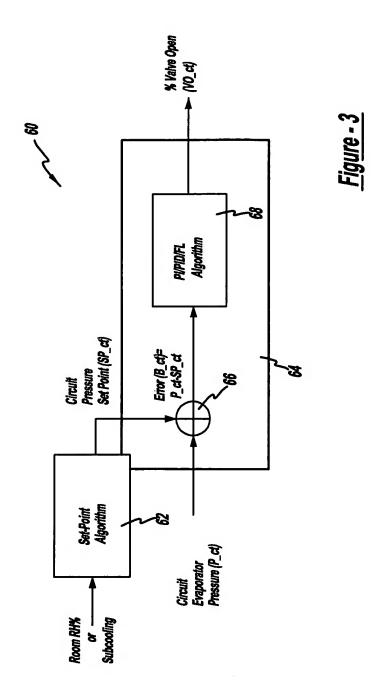


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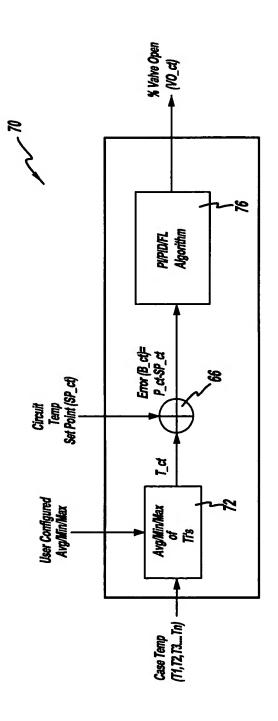
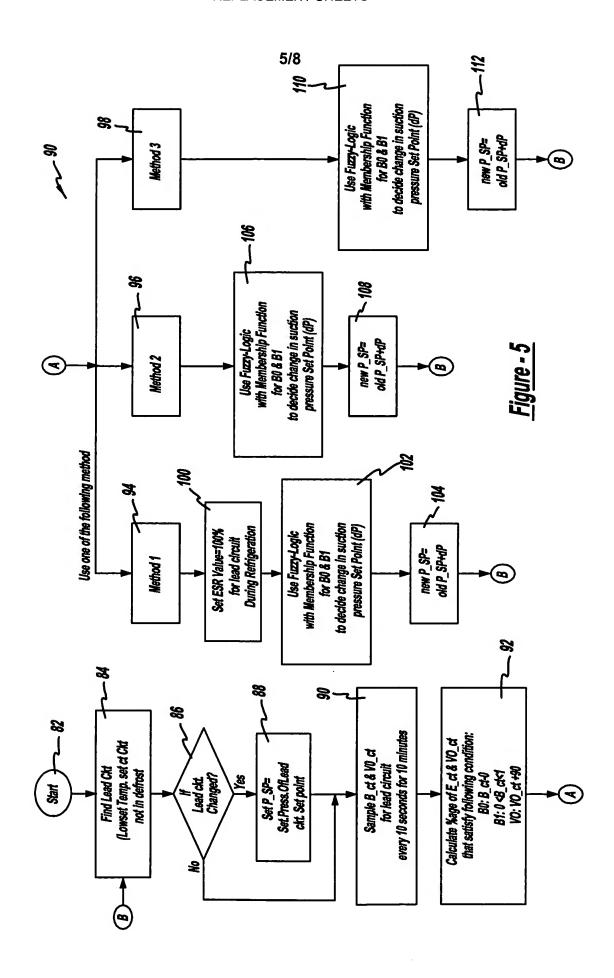


Figure - 4





8

E

Graph 68

Sample Calculation: For E0=40%: E1=30%

Et is the percentage of E.c. that is between zero ant 1 F in 10 minute duration

TRUTH TABLE 6C

Note:E0 is the percentage of E_ct that is less than zero in 10 minute duration

Step1: Fuzzification:

For E0=40% from Men. Function Chart for E0 we get E0_Lo=0.25; E0_Avg=0.75 For E1=30% from Men. Function Chart for E1 we get E1_10=0.5; E1_Arg=0.5

Step2: MinMax: Refer to Truth Table

E0_Lo=0.25 and E1_Avrg=0.5 ⇒ NBC=Min(0.25,0.50)=0.25 E0 Lo=0.25 and E1 Lo=0.5 ⇒ NBC=Win(0.25.0.50)=0.25

E0 Avg=0.75 and E1 Lo=0.5 ⇒ PSC=Win(0.75,0.50)=0.50

Now take maximum of common one that is PSC=0.50; NSC=0.25, NBC=0.25 E0_Avg=0.75 and E1_Avg=0.5 ⇒ PSC=Nin(0.75,0.50)=0.50

Step3: Defuzzification Step:

=+1"0.50-1"0.25-2"0.25/(0.5+0.25+0.25) Net Pressure set Point Change=+1795C-17NSC-2NBC/ (PSC+NSC+NBC)

ઝુ BC Ж ≆ इं इं Avg 28 BC ЭВИ NBC 2 E1(J) Arg. 2 ≋

Quantity Changed:

NSC: Negative Small Change=1 Psi NBC: Negative Big Change=2 Psi NC: No Change=0 Psi

PSC: Positive Small Change=+1 Psl PBC: Positive Big Change=+2 Psi

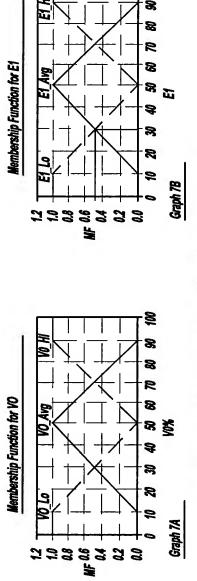
Membership Function for EO EO AVG E0 Lo

25882

07

Membership Function for E1

Graph 64 2 MF 0.6 22.8



\$

Note:VO is the percentage of V_ct that is less than 90% valve opening in 10 minute duration Et is the percentage of E_ct that is between zero anf 1 F in 10 minute duration

	3	Hi	PBC	PSC)W
TRUTH TABLE TC	7	AND	38 <i>d</i>)Sd	3SN
	ı	07	38 d	SS	JAN
TRUL	9			7	

E1(J)

Avg.

Quantity Changed:

NBC: Negativo Big Chango=2 Psi NSC: Negativo Small Chango=1 Psi

NC: No Change=1 Psi PSC: Positive Small Change=+1 Psi PBC: Positive Big Change=+2 Psi

